Sept. 18, 1923. 1,468,288

J. B. EEN

WOODEN FLOOR SECTION

Filed July 1, 1920

Fig. 1.

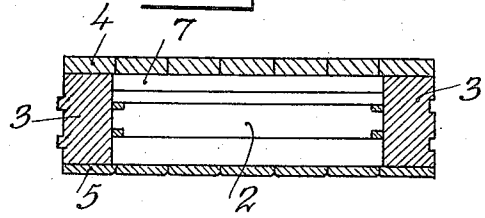


Fig. 2.

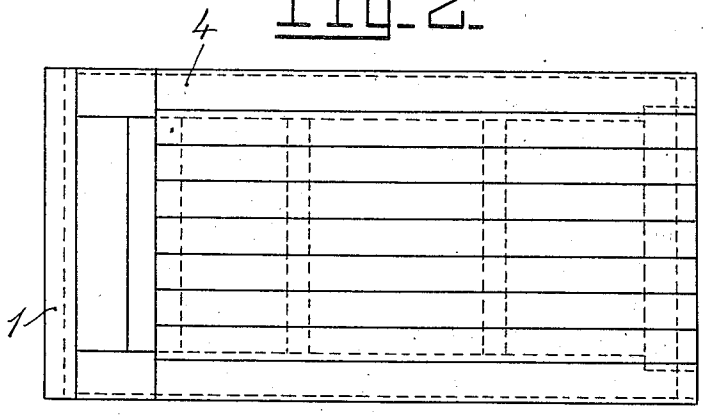
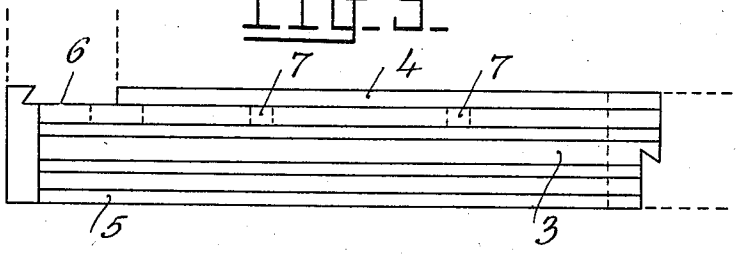


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHANNES BENJAMIN EEN, OF VOSS, NORWAY.

WOODEN-FLOOR SECTION.

Application filed July 1, 1920. Serial No. 393,408.

To all whom it may concern:

Be it known that I, JOHANNES BENJAMIN EEN, a subject of the King of Norway, residing at Voss, Norway, have invented certain new and useful Improvements in Wooden-Floor Sections; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to wooden floors of the kind in which the floor is made of wooden floor sections, preferably those which are ready-made in a flooring plant.

The novel feature of the present invention resides in the fact that the deals are not laid transversely to the floor beams, as in the ordinary practice, but parallel to the same. By this form of construction the strength of the deals is added to that of the floor beams to which they are nailed, thereby correspondingly increasing the bearing strength of said beams. The ceiling boards nailed to the underside of the beams are laid in a similar manner, namely parallel to the beams, thereby also adding to their strength. Test loads have shown that it is possible in this manner to ensure a considerable saving, and that the beam dimensions may be materially reduced compared to floors in which the deals are nailed transversely to the beams.

In the drawings accompanying and forming part of this specification,

Figure 1 is a cross-sectional view of a floor section, made in accordance with the present invention;

Fig. 2 is a plan view of the same section; and

Fig. 3 is an end view thereof.

Similar characters of reference indicate corresponding parts throughout the figures of the drawings.

Referring to these drawings, the floor sections are, as in the ordinary practice, composed of a frame 1, to both sides of which are nailed boards, and which frame 1 may eventually be provided with one or more cardboard frames 2, subdividing the interior cavity of the section. According to my invention, I employ the longitudinal frame parts 3 as floor beams, the same being reinforced by the deals 4, and the ceiling boards 5 being nailed lengthwise on to the frame parts 3, which are preferably made of planks on edge. In this manner there are formed combined beams, being in the form of doweled or armed beams obtaining a height corresponding to the height of the planks 3, to which is added the thickness of the deal 4 and the ceiling board 5 nailed to said plank.

The outward sides of the planks or beams 3 may be grooved or feathered in the usual manner and the finished sections are laid directly on to the foundation wall or to the outer and partition walls in the same way as common floor beams. It is therefore possible to effect the laying of a floor of such floor sections within a very short time.

The floor sections shown in the drawings are intended for carrying an outer wall, and are assembled so as to form at their outer ends a depression 6 for insertion of the vertical sections of said walls as indicated in dotted lines in Fig. 3.

The floor sections may eventually be provided with transverse braces 7 for the deal boards 4.

It is, of course, obvious that various changes and modifications may be made to the details of construction without departing from the spirit or scope of the invention.

I claim:

1. A floor section, forming a unit comprising a wooden frame made up of a pair of longitudinally extending planks and a plurality of transverse braces, a plurality of deals nailed to the frame at one side thereof and extending longitudinally of the planks, and a plurality of ceiling boards nailed to the frame at the other side thereof, and likewise extending longitudinally of said planks, the outer of said deals lying above said planks and nailed to them and the outer of said ceiling boards lying below said planks and being nailed to them, said outer deals and ceiling boards having their outer edges flush with the outer sides of said planks, the organization being such that said longitudinal planks, outer deals and outer ceiling boards form a reinforced joist of a height corresponding to the total height of the plank, having added to it the total thickness of the outer deals and the outer ceiling boards.

2. A floor section, forming a unit comprising a wooden frame made up of a pair of

longitudinally extending planks and a plurality of transverse braces, a plurality of deals nailed to the frame at one side thereof and extending longitudinally of the planks, and a plurality of ceiling boards nailed to the frame at the other side thereof, and likewise extending longitudinally of said planks the outer of said deals lying above said planks and nailed to them and the outer of said ceiling boards lying below said planks and being nailed to them, said outer deals and ceiling boards having their outer edges flush with the outer sides of said planks, the organization being such that said longitudinal planks, outer deals and outer ceiling boards form a reinforced joist of a height corresponding to the total height of the plank, having added to it the total thickness of the outer deals and the outer ceiling boards, said unit being provided at one of its transverse edges with a dove-tailed groove for the reception of a vertical section.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

JOHANNES BENJAMIN EEN.

Witnesses:
ROBERT H. FRAZIER,
S. HAMPTON DE PUE.